

ABSTRACT OF THE DISCLOSURE

An OFDM receiver apparatus comprises a receiver to receive an OFDM signal, an estimator to estimate a distortion, a distortion compensator subjecting the sub-carrier to distortion compensation according to a control signal to generate a distortion-compensated sub-carrier, a demodulator to demodulate the distortion-compensated sub-carrier, an estimator to generate first phase distortion information, using the distortion-compensated sub-carrier and the distortion information, a weighting synthesizer to weight the first phase distortion information by weighting factors with time function over symbol intervals and then synthesize the first phase distortion information, to generate second phase distortion information, and a control signal generator to generate the control signal using the distortion information and the second phase distortion information.